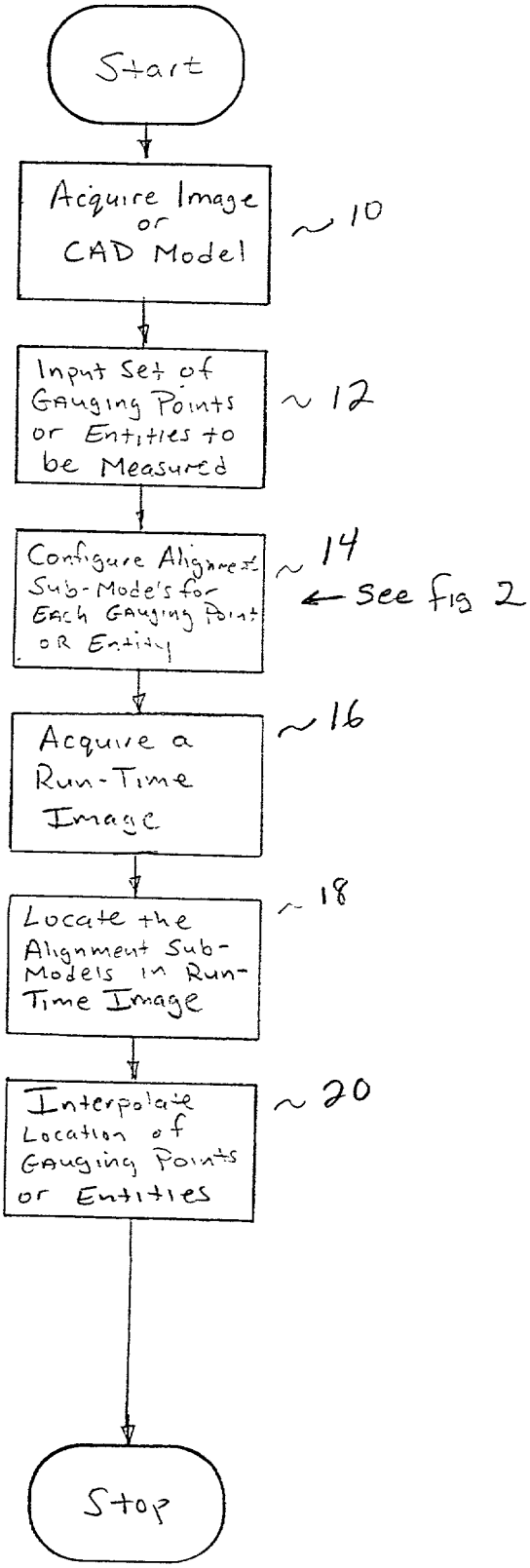
Start
Acquire Image or CAD Model
10
Input Set of Gauging Points or Entities to be Measured
12
Configure Alignment Sub-Model's for Each Gauging Point or Entity
14
See Fig 2
Acquire a Run-Time Image
16
Locate the Alignment Sub-Models in Run-Time Image
18
Interpolate Location of Gauging Points or Entities
20
Stop

FIG. 1

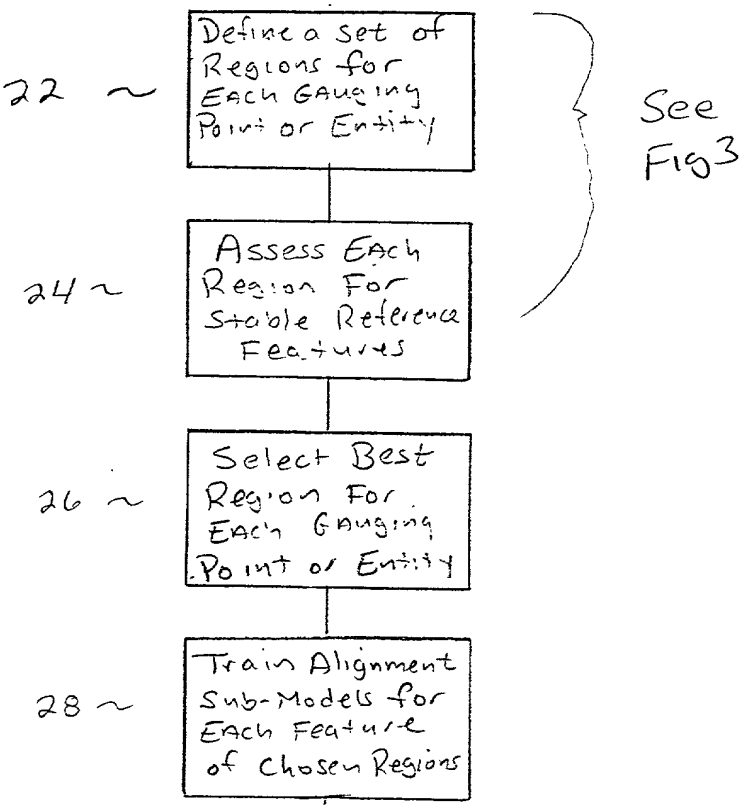
22
Define a set of Regions for Each Gauging Point or Entity
See Fig3
24
Assess Each Region For Stable Reference Features
26
Select Best Region For Each Gauging Point or Entity
28
Train Alignment Sub-Models for Each Feature of Chosen Regions

FIG 2

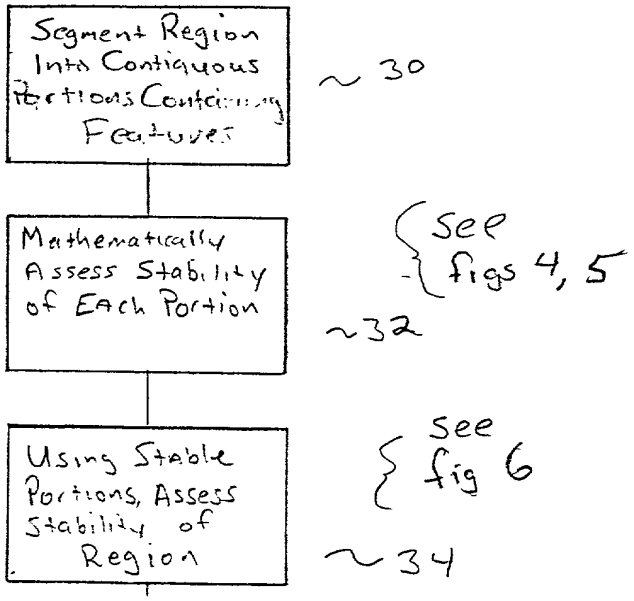
Segment Region Into Contiguous Portions Containing Features
~30
Mathematically Assess Stability of Each Portion
~32
see figs 4, 5
Using Stable Portions, Assess Stability of Region
~34
see fig 6

FIG. 3

Assess Stability of Each Portion Within A Region Using Alignment Tool

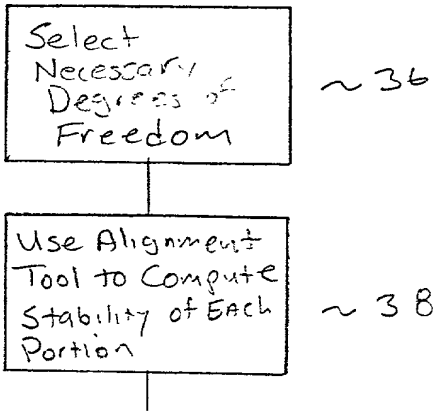

FIG. 4

Assess Stability of EACH Portion Within A Region Using Condition Number (alternative embodiment)

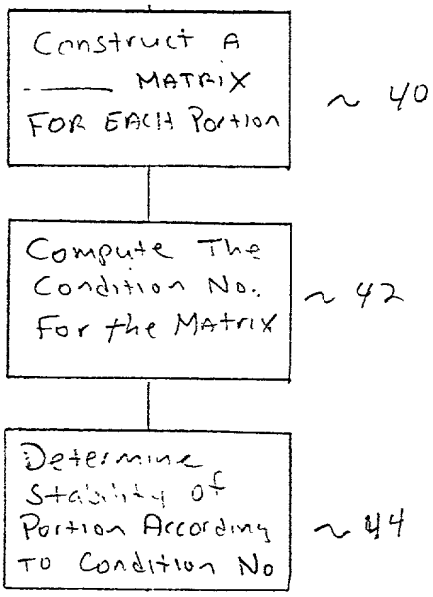

FIG. 5

Assess Stability of A Region

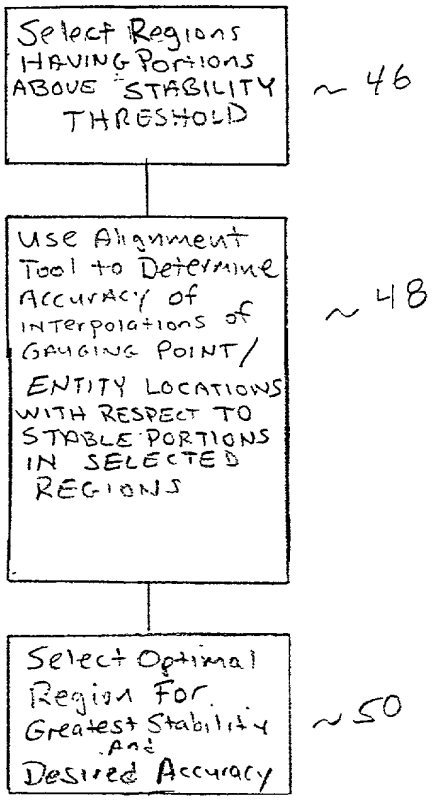

FIG. 6

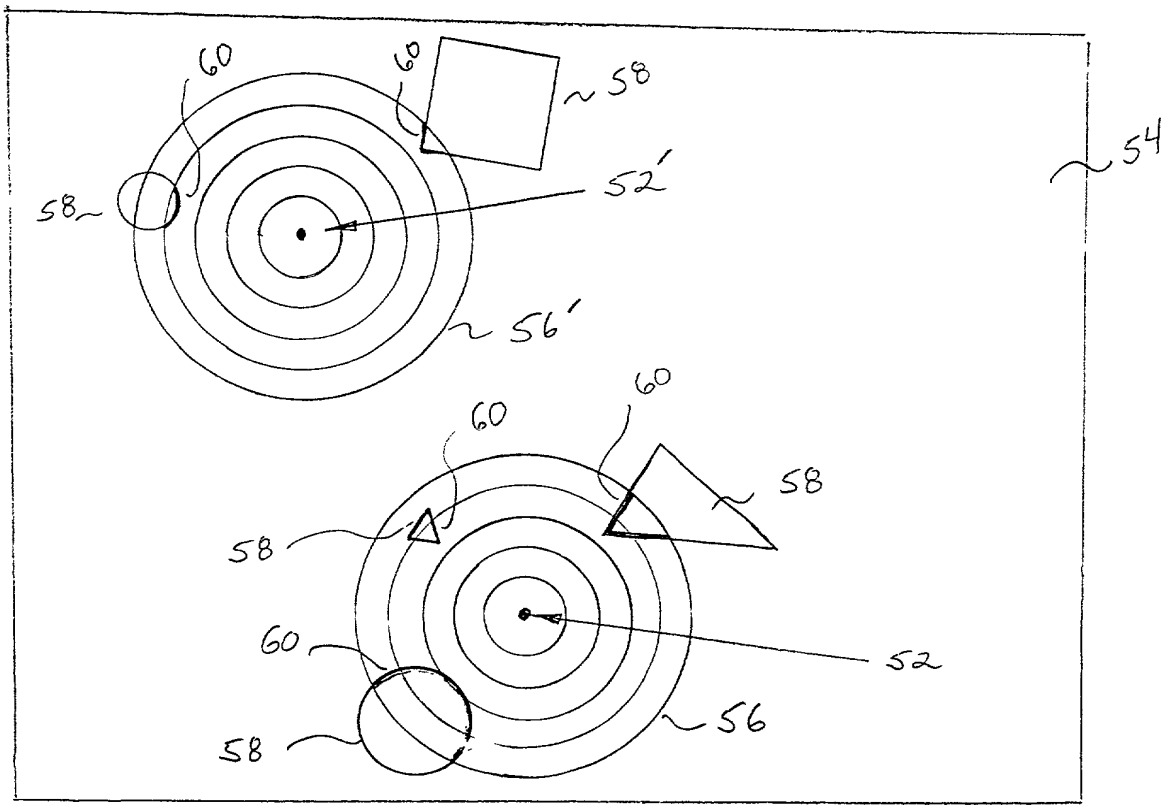

FIG. 7